

SYSTEM **P**LANNING & **A**NALYSIS **R**EPORT

S-79

T. H. 394
T. H. 94 TO WASHINGTON AVENUE

S. P. 2789

FEBRUARY, 1972

PREPARED BY
OFFICE OF SYSTEM PLANNING



**MINNESOTA
DEPARTMENT
OF HIGHWAYS**

DEPARTMENT HIGHWAY-Statewide Plan.
Room 807 Ext. 3158

Office Memorandum

TO : Paul G. Velz
Road Design Engineer

DATE: February 9, 1972

FROM : Morris Gildemeister, Chief
Statewide Planning Section

SUBJECT: T.H. 394, T.H. 94 to Washington Ave.
S.P. 2789
System Planning and Analysis Report S-79

The Traffic Analysis Section transmits this report in response to G. Ellis' request for 1995 ADT and HCA DT for the project location shown on the map on page 2.

The enclosed 1985 ADT volumes may be expanded by 10% to obtain the 1995 volumes.

For each segment numbered on the map on page 3, the following data are tabulated on pages 4-7.

- a) Total ADT
- b) Vehicle Type Distribution
- c) Total Heavy Commercial ADT

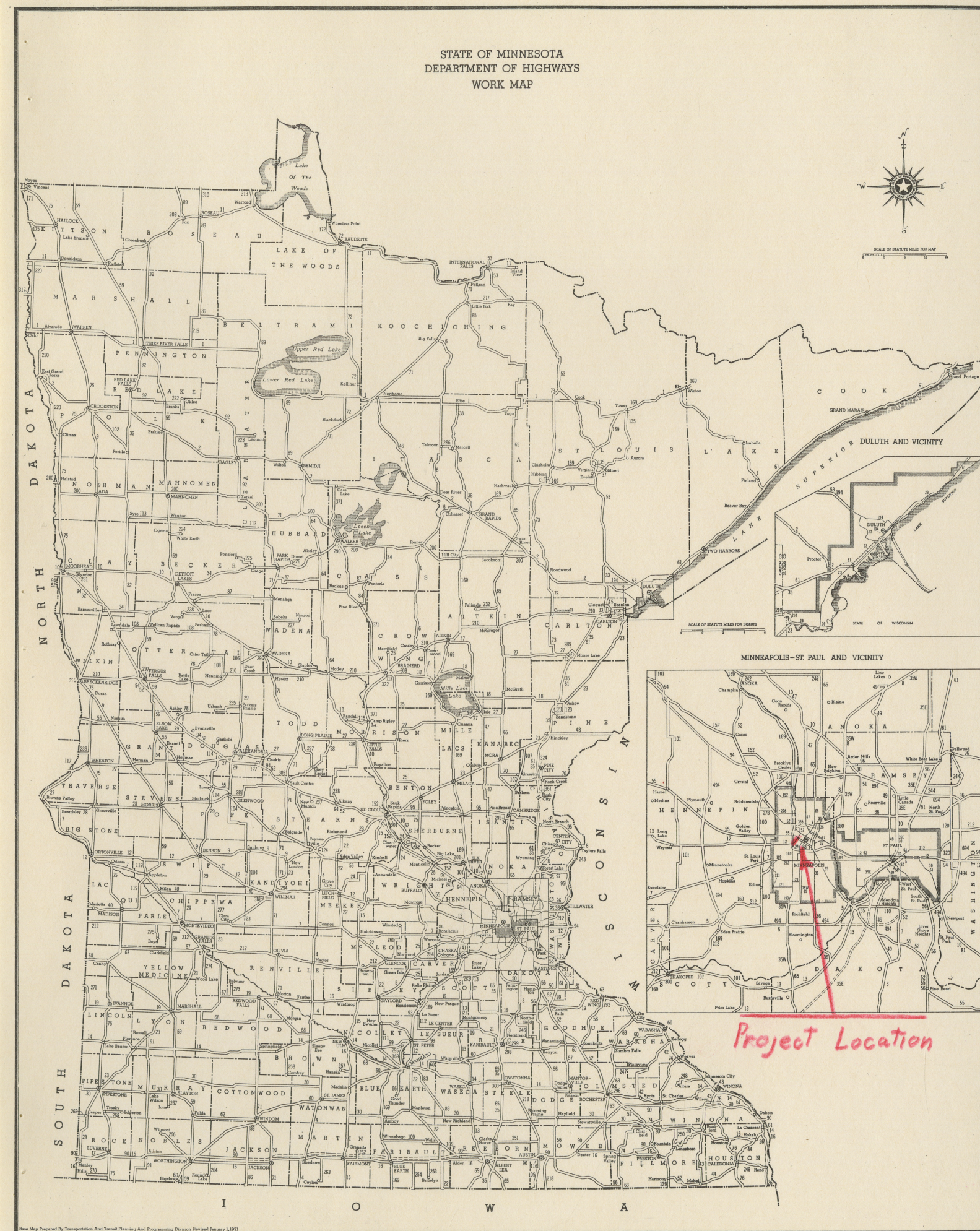
The basic data, method, and assumptions are on page 8.

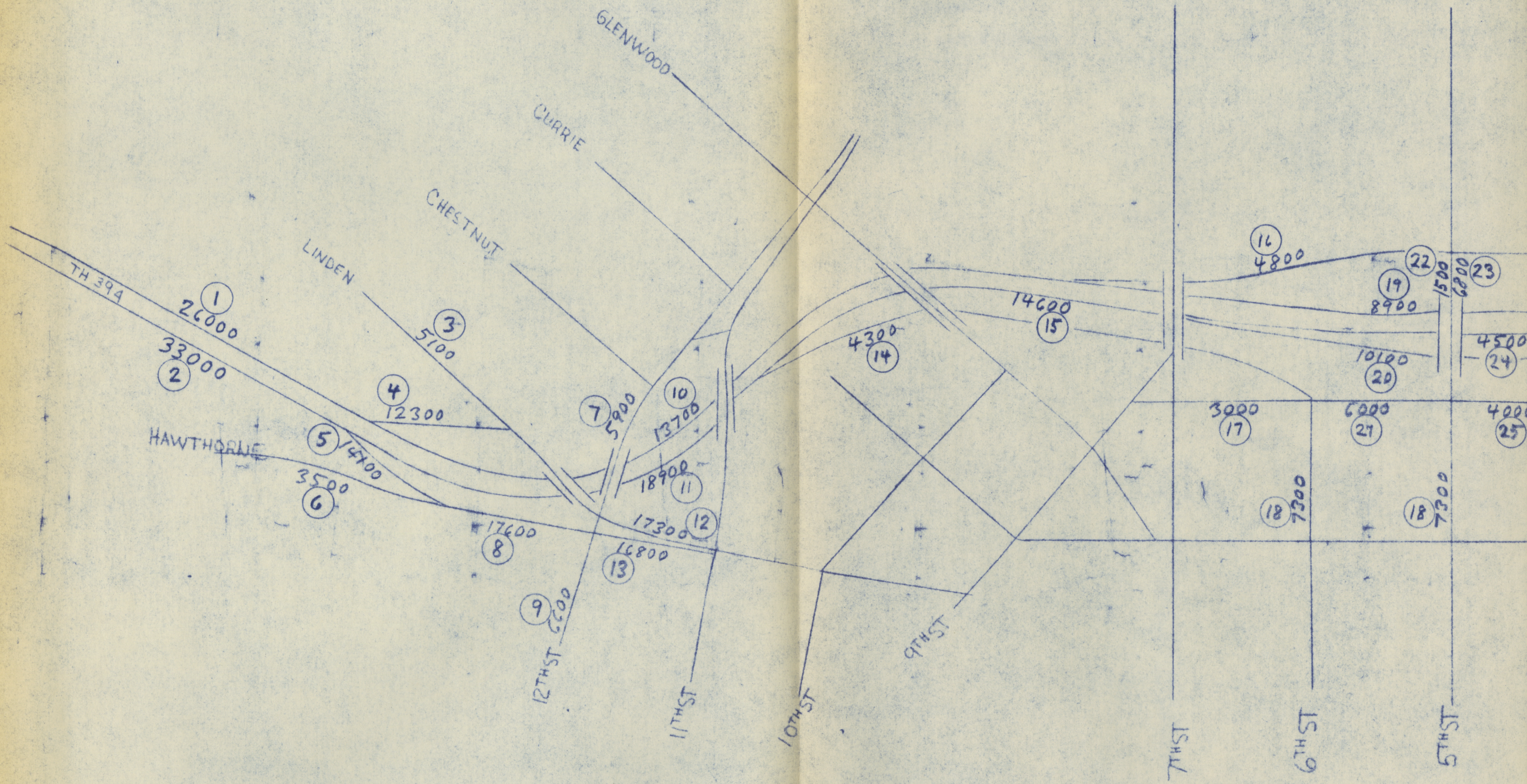
Morris Gildemeister

Morris Gildemeister, Chief
Statewide Planning Section

Enclosures

PH





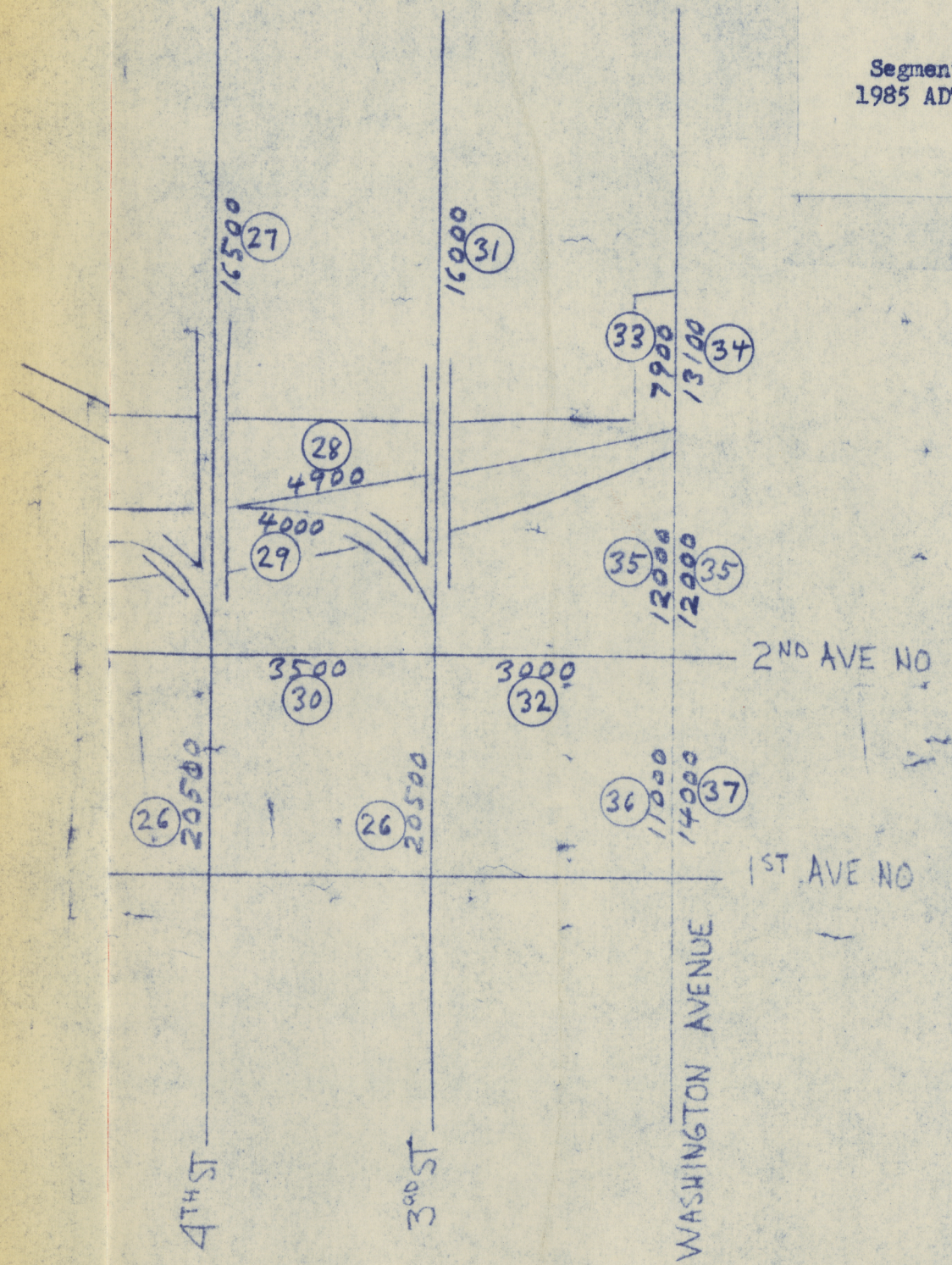
SPAR S-79

T.H. 394
T.H. 94 to Washington Ave.

Legend

Segment Number ①
1985 ADT 26000

- 3 -



TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 4

FOR

T.H. 394 S.P. 2789 LENGTH --- MILES

COUNTY Hennepin LOCATION T.H. 94 to Washington Ave.

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS

DEFINED ON ATTACHED INDEX MAP

| VEHICLE # TYPE | SEGMENT NUMBER | | | | | | | | | | |
|-----------------------------|----------------|-------|------|-------|-------|------|------|-------|------|-------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 0 | 24432 | 31011 | 4874 | 11796 | 13505 | 3359 | 5301 | 16864 | 5956 | 12636 | 17506 |
| 1 | 851 | 1096 | 122 | 218 | 266 | 106 | 281 | 372 | 296 | 633 | 830 |
| 2 | 157 | 199 | 39 | 89 | 102 | 23 | 68 | 125 | 73 | 68 | 97 |
| 3 | 82 | 88 | 17 | 29 | 35 | 4 | 40 | 39 | 44 | 53 | 53 |
| 4 | 80 | 101 | 14 | 30 | 34 | 2 | 22 | 36 | 24 | 50 | 67 |
| 5 | 166 | 211 | 22 | 62 | 71 | 4 | 52 | 75 | 57 | 104 | 140 |
| 6 | 232 | 294 | 12 | 76 | 87 | 2 | 136 | 89 | 150 | 156 | 207 |
| TOTAL ADT | 26000 | 33000 | 5100 | 12300 | 14100 | 3500 | 5900 | 17600 | 6600 | 13700 | 18900 |
| TOTAL H. COMM. ADT | 1568 | 1989 | 226 | 504 | 595 | 141 | 599 | 736 | 644 | 1064 | 1394 |
| TOTAL DHV | | | | | | | | | | | |
| DIRECTIONAL DISTRIBUTION | | | | | | | | | | | |

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 4

FOR

T.H. 394 S.P. 2789 LENGTH --- MILES

COUNTY Hennepin LOCATION T.H. 94 to Washington Ave.

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS

DEFINED ON ATTACHED INDEX MAP

| VEHICLE # TYPE | SEGMENT NUMBER | | | | | | | | | | |
|-----------------------------|----------------|-------|------|-------|------|------|------|------|-------|------|------|
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 0 | 16527 | 16046 | 3956 | 13550 | 4427 | 2592 | 6485 | 8209 | 9375 | 5189 | 1350 |
| 1 | 381 | 388 | 188 | 642 | 222 | 216 | 402 | 411 | 444 | 410 | 81 |
| 2 | 130 | 122 | 33 | 64 | 24 | 51 | 107 | 44 | 44 | 119 | 17 |
| 3 | 57 | 45 | 24 | 29 | 19 | 33 | 67 | 34 | 19 | 73 | 11 |
| 4 | 45 | 38 | 24 | 43 | 17 | 24 | 42 | 33 | 30 | 42 | 8 |
| 5 | 80 | 78 | 41 | 99 | 36 | 63 | 98 | 68 | 68 | 121 | 17 |
| 6 | 80 | 83 | 34 | 173 | 55 | 21 | 99 | 101 | 120 | 46 | 16 |
| TOTAL ADT | 17300 | 16800 | 4300 | 14600 | 4800 | 3000 | 7300 | 8900 | 10100 | 6000 | 1500 |
| TOTAL H. COMM. ADT | 773 | 754 | 344 | 1050 | 373 | 408 | 815 | 691 | 725 | 811 | 150 |
| TOTAL DHV | | | | | | | | | | | |
| DIRECTIONAL DISTRIBUTION | | | | | | | | | | | |

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 3 OF 4

FOR

T.H. 394 S.P. 2789 LENGTH -- MILES

COUNTY Hennepin LOCATION T.H. 94 to Washington Ave.

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 33 AS

DEFINED ON ATTACHED INDEX MAP

| VEHICLE * TYPE | SEGMENT NUMBER | | | | | | | | | | |
|-----------------------------|----------------|------|------|-------|-------|------|------|------|-------|------|------|
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
| 0 | 6089 | 4175 | 3441 | 18375 | 14696 | 4520 | 3689 | 2929 | 14249 | 2544 | 6260 |
| 1 | 346 | 198 | 289 | 1136 | 956 | 226 | 185 | 276 | 929 | 234 | 793 |
| 2 | 132 | 20 | 79 | 256 | 223 | 24 | 20 | 92 | 216 | 67 | 251 |
| 3 | 50 | 10 | 48 | 162 | 140 | 19 | 15 | 54 | 136 | 40 | 143 |
| 4 | 37 | 13 | 30 | 102 | 88 | 18 | 15 | 33 | 85 | 25 | 83 |
| 5 | 79 | 31 | 84 | 292 | 252 | 37 | 31 | 93 | 244 | 70 | 239 |
| 6 | 67 | 53 | 26 | 177 | 145 | 56 | 45 | 23 | 141 | 20 | 131 |
| TOTAL ADT | 6800 | 4500 | 4000 | 20500 | 16500 | 4900 | 4000 | 3500 | 16000 | 3000 | 7900 |
| TOTAL H. COMM. ADT | 711 | 325 | 556 | 2125 | 1804 | 380 | 311 | 571 | 1751 | 456 | 1640 |
| TOTAL DHV | | | | | | | | | | | |
| DIRECTIONAL DISTRIBUTION | | | | | | | | | | | |

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 4 OF 4

FOR

T.H. 394 S.P. 2789 LENGTH -- MILES

COUNTY Hennepin LOCATION T.H. 94 to Washington Ave.

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 34 THROUGH 37 AS

DEFINED ON ATTACHED INDEX MAP

| VEHICLE * TYPE | SEGMENT NUMBER | | | | | | | | | | |
|-----------------------------|----------------|-------|-------|-------|--|--|--|--|--|--|--|
| | 34 | 35 | 36 | 37 | | | | | | | |
| 0 | 10948 | 10034 | 9191 | 11725 | | | | | | | |
| 1 | 1050 | 964 | 886 | 1120 | | | | | | | |
| 2 | 301 | 276 | 254 | 321 | | | | | | | |
| 3 | 179 | 164 | 151 | 191 | | | | | | | |
| 4 | 112 | 103 | 95 | 120 | | | | | | | |
| 5 | 314 | 288 | 265 | 335 | | | | | | | |
| 6 | 196 | 171 | 158 | 188 | | | | | | | |
| TOTAL ADT | 13100 | 12000 | 11000 | 14000 | | | | | | | |
| TOTAL H. COMM. ADT | 2152 | 1966 | 1809 | 2275 | | | | | | | |
| TOTAL DHV | | | | | | | | | | | |
| DIRECTIONAL DISTRIBUTION | | | | | | | | | | | |

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data Method and Assumptions

The System 14 1985 ADT and DHV for the project were transmitted in SPAR M-47A in April, 1971.

The total heavy commercial volumes were determined by the System 14 computer assignment of 1985 HCADT. The vehicle classification distribution, which was based on vehicle type counts made within the project area, was projected to design year values by application of a state-wide vehicle type trend study.

1995 ADT and HCADT distributions may be obtained by increasing the enclosed figures by 10%.